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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/071,585	02/08/2002	Marck Kwiatkowski	11989-008001	2835

26191 7590 12/15/2004

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EXAMINER

LU, FRANK WEI MIN

ART UNIT	PAPER NUMBER
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1634

DATE MAILED: 12/15/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)	
	10/071,585	KWIATKOWSKI, MAREK	
	Examiner	Art Unit	
	Frank W Lu	1634	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 10 September 2004.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-35 is/are pending in the application.
- 4a) Of the above claim(s) 4,5,10-13,18,20-23,29,32 and 33 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 26-28,30,31 and 34 is/are rejected.
- 7) ☒ Claim(s) 1-3,6-9,14-17,19,24,25 and 35 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 08 February 2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |   |   |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                        | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)    | Paper No(s)/Mail Date. _____  |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____   | 6) <input type="checkbox"/> Other: _____                                    |

## **DETAILED ACTION**

### ***Election/Restrictions***

1. Applicant's election without traverse of species of interaction with separation medium via a non-covalent interaction (claims 3 and 6), species wherein separation unit is alkoxypixyl (claims 8 and 9), species wherein separation medium is a reverse phase separation medium (claims 17 and 19), species wherein cleaving step is facilitated using TBAF (claim 28), and species wherein a cleavable unit of the first or second separation tag comprises a siloxyl or disiloxy moiety (claim 16) in the reply filed on September 10, 2004 is acknowledged. Therefore, claims 1-3, 6-9, 14-17, 19, 24-28, 30, 31, 34, and 35 will be examined. The following rejections are based on amendments filed on April 5, 2004.

### ***Claim Objections***

2. Claims 1 and 27 are objected to because of the following informalities: "said second separation tags" in line 6 of step a) of the claims should be "said second separation tag".

Appropriate correction is required.

### ***Claim Rejections - 35 USC § 112***

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 26-28, 31, and 34 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Art Unit: 1634

5. Claim 26 recites the limitation “said non-cleaved separation tag” in the claim. There is insufficient antecedent basis for this limitation in the claim because there is no phrase “non-cleaved separation tag” in claim 1. Please clarify.
6. Claim 27 recites the limitation “said second separation function” in the claim. There is insufficient antecedent basis for this limitation in the claim because there is no phrase “second separation function” in steps a) to d) of claim 27. Please clarify.
7. Claim 31 is rejected as vague and indefinite because it is unclear how said separation medium (a separation medium recited in claim 30) can comprise a first separation medium and a second separation medium. Please clarify.
8. Claim 34 recites the limitation “the other separation tag” in the claim. There is insufficient antecedent basis for this limitation in the claim because there is no phrase “other separation tag” in claim 1. Please clarify.

***Claim Rejections - 35 USC § 102***

9. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

10. Claim 30 is rejected under 35 U.S.C. 102(b) as being anticipated by Kwiatkowski *et al.*, (Nucleic Acids Research, 24, 4632-4638, 1996).

Regarding claim 30, since Kwiatkowski *et al.*, teach an oligonucleotide 16 (see Figure 1),

Art Unit: 1634

Kwiatkowski *et al.*, disclose a plurality of oligonucleotides (ie., multiple oligonucleotide 16), each said oligonucleotide comprising a first separation tag (ie., CPG-based support) attached to a first end of said oligonucleotide (5' of oligonucleotide 16) and a second separation tag (ie., disiloxyl group) attached to a second end of said oligonucleotide (3' of oligonucleotide 16), wherein cleavage of said second separation tags yields an oligonucleotide having a 3' hydroxyl moiety (after cleavage of disiloxyl group) as recited in a) the claim. Since Kwiatkowski *et al.*, teach that the oligonucleotide 16 is bound to a reversed-phase Pep RPC column (see 4634, right column, fourth paragraph) for purification, Kwiatkowski *et al.*, disclose a separation medium (ie., resin in the reversed-phase Pep RPC column), said plurality of oligonucleotides (ie., multiple oligonucleotide 16) adhering to said separation medium as recited in b) of the claim.

Therefore, Kwiatkowski *et al.*, teach all limitations recited in claim 30.

### ***Response to Arguments***

In page 8, third paragraph of applicant's remarks, applicant argues that Kwiatkowski *et al.*, do not teach claim 30.

The arguments have been carefully considered but they are not persuasive toward the withdrawal of the rejection on claim 30 because Kwiatkowski *et al.*, teach all limitations recited in claim 30 (see above rejection).

### ***Conclusion***

11. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

Art Unit: 1634

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

12. Claims 1-3, 6-9, 14-17, 19, 24-28, 34, and 35 appear to be allowable if above objections and the rejections under 35 U. S. C. 112 can be overcome.

13. Papers related to this application may be submitted to Group 1600 by facsimile transmission. Papers should be faxed to Group 1600 via the PTO Fax Center. The faxing of such papers must conform with the notices published in the Official Gazette, 1096 OG 30 (November 15, 1988), 1156 OG 61 (November 16, 1993), and 1157 OG 94 (December 28, 1993)(See 37 CAR § 1.6(d)). The CM Fax Center number is either (703) 872-9306.

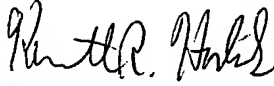
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Frank Lu, Ph.D., whose telephone number is 571-272-0746. The examiner can normally be reached on Monday-Friday from 9 A.M. to 5 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Benzion, can be reached on (703) 308-1119.

Art Unit: 1634

Any inquiry of a general nature or relating to the status of this application should be directed to the Chemical Matrix receptionist whose telephone number is (703) 308-0196.

Frank Lu  
PSA  
December 10, 2004

  
KENNETH R. HORLICK, PH.D  
PRIMARY EXAMINER

12/13/04